

CRATE

G20 XL



GUITAR AMPLIFIER

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We would like to take this opportunity to thank you for selecting a Crate product, and to tell you of our commitment to the design and manufacture of only the finest musical instrument amplification equipment; built for you, the musician.

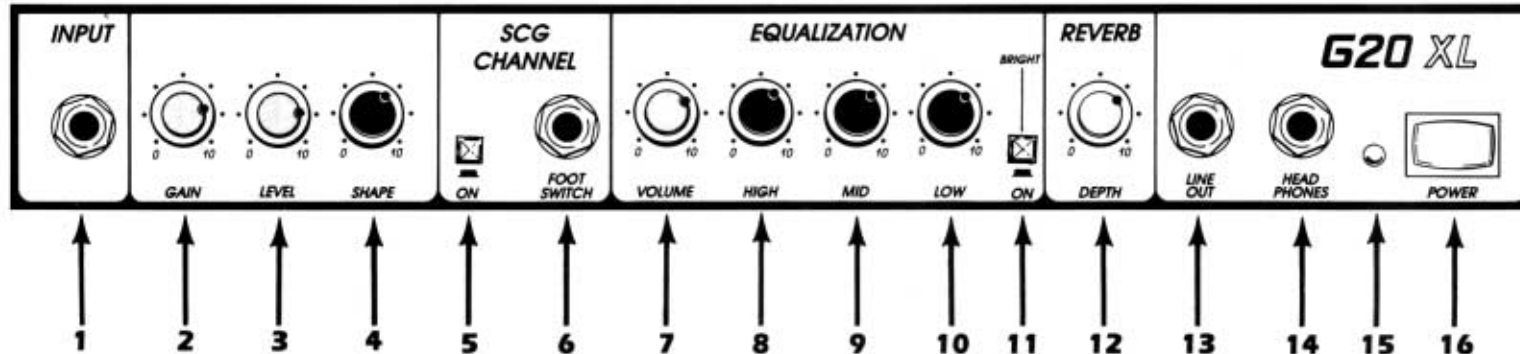
You have purchased one of the most innovative sound amplification devices available today. Your Crate amplifier gives you more performance features than ever before; features that you, the musician, have asked for.

Your Crate amplifier is an American product, manufactured at our factory in St. Louis, Missouri. Only the finest available components and materials are used in the manufacture of each amplifier.

All Crate amplifiers are subject to seven or more inspection and testing steps to assure you of a high quality product. The final test for each amp is conducted by a trained musician with the instrument the amp was designed for. Any unit that does not meet the standards of his discriminating ear will not be passed.

Since all Crate products are designed, developed, and manufactured through the cooperative efforts of engineers and professional musicians, the end result is a product that responds to the musician's audio requirements, and a product that will serve your needs for years to come.

OPERATION



FRONT PANEL FEATURES AND FUNCTIONS

1. INPUT JACK: This input accepts a standard 1/4" phone plug and is suitable for any low to line level signal source such as an electric guitar.

SCG (Sequential Cascading Gains) SECTION

2. GAIN CONTROL: The amount of

overdrive in the SCG channel is determined by the gain control's settings. This control works in conjunction with the volume control (7).

3. LEVEL CONTROL: The overall volume of the SCG channel is controlled with this knob and has no effect on the normal channel section.

4. SHAPE CONTROL: This is the overall

tone control for the SCG section. When turned to the left, a setting with heavy emphasis on mid range is achieved. When rotated right, the amp creates a "fat" sound with extra boost on lows and highs.

5. SCG CHANNEL SELECT SWITCH: This SCG channel is the maximum gain channel and is typically used for an overdrive sound. It is selected by push-

ing this switch "In". In this position all gain and tone controls are active. The "Out" position selects the lower gain normal channel. It should be used for the cleanest sound.

6. **FOOTSWITCH JACK:** This jack is to be used with the channel selector/reverb footswitch. When this is used the SCG channel select switch (5) is inactive.

NORMAL CHANNEL SECTION

7. **VOLUME CONTROL:** This control sets the overall listening level of the normal channel. It must also not be at zero for the SCG channel to function.
8. **HIGH CONTROL (treble):** This knob affects the upper harmonic range of the guitar; clockwise (higher) settings increase the crispness or "bite" of the sound.
9. **MID CONTROL:** The amount of midrange tone is set using this control. Low settings "thin out" the sound, while higher settings can give a "fatter" sound. This control is especially useful while using the SCG channel.
10. **LOW CONTROL (bass):** The amount of "bottom" or "warmth" may be

increased or decreased with this knob.

11. **BRIGHT SWITCH:** This switch affects the brilliance of the guitar's sound by adding additional "bite" or sharpness. This switch affects both channels.
12. **REVERB CONTROL:** This control allows the player to alter the apparent acoustical qualities of a room. The sound can be adjusted from very "flat" or "dry" to that of a concert hall.
13. **LINE OUT JACK:** This jack is used to link the G-20XL to additional amplifiers or to connect the amp to a tape recorder. Simply run a cable from the output of this jack to the input of another amplifier or tape deck. External speakers cannot be hooked up to this jack.
14. **HEADPHONE JACK:** Unpowered headphones may be plugged into this jack. Plugging headphones into this jack disconnects the internal speaker so the output of the amplifier will be heard only through the headphones.
15. **POWER LED INDICATOR:** The amplifier is on when led is lit.
16. **POWER SWITCH:** This is a two posi-

tion switch; pressing the right side of the switch turns the unit on and the left side turns the unit off.

REAR PANEL FEATURES

POWER CORD (not shown): Your G-20XL is equipped with a heavy-duty grounded three-wire power cord. Be sure this cord is properly plugged into a safely wired grounded 120 volt, 60 hz AC power outlet before use. (If your G-20XL was purchased outside the United States, refer to the rear panel for power ratings). For your safety, never attempt to defeat the ground connection on this cord.

G20XL TECHNICAL SPECIFICATIONS

Output Power Rating	20W RMS @ 5% THD 4 ohm load @ 1K, 120 VAC line
Speaker Size and Rating:	10" 4 ohm with 1.0" voice coil power capacity 20 watts RMS
Input Impedance	280K ohms
Low Control	15 db range @ 80 Hz
Mid Control	15 db range @ 500 Hz
High Control	22 db range @ 5 KHz
Maximum Signal Level Accepted	2.5V peak to peak
Total System Gain	Normal Channel: 50 db SCG Channel: 85 db
Signal to Noise Ratio	Normal Channel: 68 db SCG Channel: 50 db
Line Level Output	1.6V peak to peak full output
Headphone Level	12mW with 8 ohms phones 1.0V with open circuit
Input Power Requirements	120VAC, 60Hz, 100W Max. (domestic USA unit)
Cabinet Size and Weights	15" H x 15-1/2" W x 9" D 25 lbs.

Specifications subject to change without notice.

CAUTION: To reduce the risk of electric shock, do not remove chassis. No user serviceable parts inside. Refer servicing to qualified service personnel.

CAUTION: This equipment is capable of producing sound pressure levels greater than 110 dB SPL. Continued exposure to such high sound pressure levels can cause permanent hearing impairment or loss. user caution is advised, and ear protection is recommended.

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